

Title (en)
RIBBON FLOW CYTOMETRY AND CELL SORTING

Title (de)
BAND-DURCHFLUSSZYTOMETRIE UND ZELLSORTIERUNG

Title (fr)
CYTOMETRIE EN FLUX SUR RUBAN ET TRIAGE DE CELLULES

Publication
EP 1483564 A1 20041208 (EN)

Application
EP 03744624 A 20030310

Priority
• US 0307173 W 20030310
• US 36434302 P 20020314

Abstract (en)
[origin: WO03078065A1] Described herein is microfluidic device (10) for joining fluids and a related method for doing the same. The device according to the present invention includes a microfluidic junction (12), an outlet channel (14), and a plurality of circuit units (16, 18, 20). A microfluidic junction (2) is an area for converging multiple fluids. An outlet channel (14) is capable of receiving fluid from the microfluidic junction (12). An outlet channel (14) includes a first end connected with the microfluidic junction (12), a second end connected with a waste reservoir (22), and an analysis region (24) positioned between the first end and the second end of the outlet channel (14). The device also includes a plurality of circuit units (16, 18, 20). Each circuit unit includes a source channel (28) with a first end capable of receiving sample fluid and a second end connected with the microfluidic junction (12); a branch channel (30) connected with the source channel (28) at an intersection; and a flow diversion system capable of differentially directing fluid flowing through a source channel either into the microfluidic junction (12) or into a branch channel (30).

IPC 1-7
G01N 15/14; **B07C 5/00**

IPC 8 full level
G01N 35/08 (2006.01); **B01J 19/00** (2006.01); **B01L 3/00** (2006.01); **B01L 99/00** (2010.01); **C12M 1/00** (2006.01); **G01N 15/14** (2006.01); **G01N 37/00** (2006.01)

CPC (source: EP US)
G01N 15/1404 (2013.01 - EP US); **B01L 2200/0636** (2013.01 - EP US); **B01L 2300/0627** (2013.01 - EP US); **B01L 2300/0861** (2013.01 - EP US); **B01L 2300/0864** (2013.01 - EP US); **G01N 15/149** (2024.01 - EP US); **Y10T 436/11** (2015.01 - EP US); **Y10T 436/117497** (2015.01 - EP US); **Y10T 436/118339** (2015.01 - EP US); **Y10T 436/25375** (2015.01 - EP US); **Y10T 436/2575** (2015.01 - EP US)

Citation (search report)
See references of WO 03078972A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 03078065 A1 20030925; AT E354792 T1 20070315; AT E370787 T1 20070915; AU 2003220121 A1 20030929; DE 60311968 D1 20070405; DE 60311968 T2 20071108; DE 60315811 D1 20071004; EP 1483564 A1 20041208; EP 1483564 B1 20070221; EP 1487581 A1 20041222; EP 1487581 B1 20070822; JP 2005519751 A 20050707; JP 2005520150 A 20050707; US 2003175990 A1 20030918; US 7223371 B2 20070529; WO 03078972 A1 20030925; WO 03078972 A8 20040819

DOCDB simple family (application)
US 0307226 W 20030310; AT 03716414 T 20030310; AT 03744624 T 20030310; AU 2003220121 A 20030310; DE 60311968 T 20030310; DE 60315811 T 20030310; EP 03716414 A 20030310; EP 03744624 A 20030310; JP 2003576111 A 20030310; JP 2003576932 A 20030310; US 0307173 W 20030310; US 37043303 A 20030220